𝓢 Cobra
MARINE®

Owner's Manual

VHF MARINE RADIO
MR HH125

Nothing Comes Close to a Cobra®   English

Our Thanks to You

Thank you for purchasing a CobraMarine® VHF radio. Properly used, this Cobra® product will give you many years of reliable service.

How Your CobraMarine VHF Radio Works

This radio is a battery-powered portable transceiver for use afloat. It gives you two-way vessel-to-vessel and vessel-to-shore station communications, primarily for safety and secondarily for navigation and operational purposes. With it, you can call for help, get information from other boaters, talk to lock or bridge tenders, and make radiotelephone calls to anywhere in the world through a marine operator.

Besides two-way communications, the radio can provide quick access to receive all the NOAA (National Oceanographic and Atmospheric Administration) weather channels and alert you to weather emergencies with a tone on a weather channel you can select for your area.

Customer Assistance

Customer Assistance

Should you encounter any problems with this product, or not understand its many features, please refer to this owner's manual. If you require further assistance after reading this manual, Cobra Electronics offers the following customer assistance services:

For Assistance in the U.S.A.

Automated Help Desk English only.
24 hours a day, 7 days a week 773-889-3087 (phone).

Customer Assistance Operators English and Spanish.
8:00 a.m. to 6:00 p.m. Central Time Mon. through Fri. (except holidays)
773-889-3087 (phone).

Questions English and Spanish.
Faxes can be received at 773-622-2269 (fax).

Technical Assistance English only.
www.cobra.com (on-line: Frequently Asked Questions).
English and Spanish. productinfo@cobra.com (e-mail).
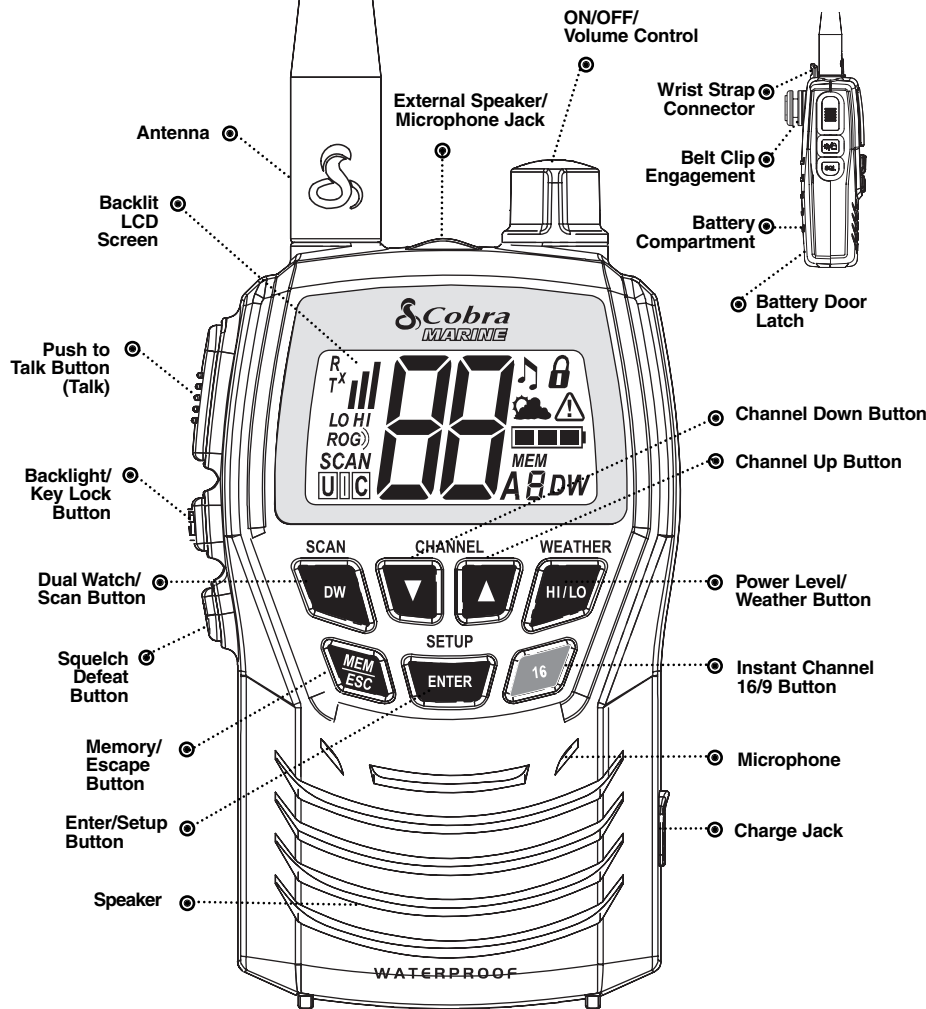
For Assistance Outside the U.S.A.

Contact Your Local Dealer

A1 **English**

Radio Controls and Indicators

ON/OFF/
Volume Control

Wrist Strap
Connector

External Speaker/
Microphone Jack

Belt Clip
Engagement

Antenna

Battery
Compartment

Backlit
LCD
Screen

Battery Door
Latch

Push to
Talk Button
(Talk)

Channel Down Button

Channel Up Button

Backlight/
Key Lock
Button

Dual Watch/
Scan Button

Power Level/
Weather Button

Squelch
Defeat
Button

Instant Channel
16/9 Button

Memory/
Escape
Button

Microphone

Enter/Setup
Button

Charge Jack

Speaker

SCAN   CHANNEL   WEATHER

DW   ▼   ▲   HI/LO

SETUP

MEM
ESC   ENTER   16

Cobra
MARINE

WATERPROOF

Backlit LCD Screen and Product Features

Backlit LCD (Liquid Crystal Display) Screen

Receive & Transmit Icons

Signal Strength Icon

Low/High Power Icons

Roger Beep Icon

Scan Icon

UIC Active Channel
Map Icons

Active Channel Numbers

Key Tone Icon

Button Lock Icon

Weather Icon

Weather Alert Icon

Battery Power Icon

Memory Channel Icon

Dual Watch Icon

Broadcast Receive Icon

Simplex Operation Icon
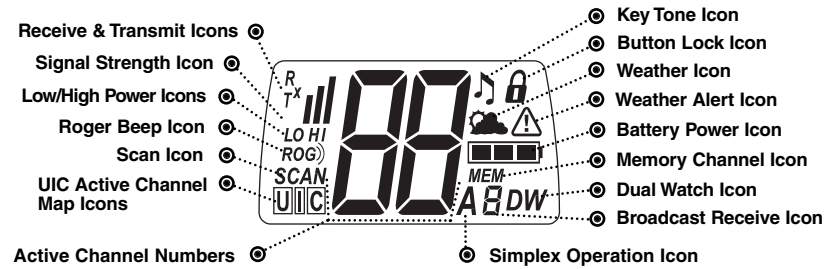
Product Features

Power Settings
Select 1 or 3 watts of output power
for near or distant calling.

USA/International/Canada Channels
Operate on any of the three (3) different
channel maps set up for these areas.

All NOAA Weather Channels
Instant access to all National Weather
Channels, 24 hours a day.

Emergency Weather Alert
Receive NOAA alerts when threatening
weather is nearby.

Waterproof
Meets JIS4 waterproof standards.

Key Lock
Prevents accidental setting changes
when key lock is set.

Channel Scan/Memory Scan
Scan through all or memorized channels
to find conversations in progress.

Instant Channel 16/9
Provides instant access to priority
Channel 16 and calling Channel 9.

Dual-Watch
Use to monitor two (2) channels at once –
Channel 16 and one programmable channel.

Roger Beep Tone (Selectable)
Confirmation tone indicates the
completion of the user's transmission and
signals to others it is clear to talk.
On or Off selectable.

**Rechargeable NiMH (Nickel-Metal
Hydride) Batteries**
Five (5) rechargeable NiMH batteries
supplied with the unit provide extended
operating time compared to alkaline
batteries and have no memory effect.
Five (5) AAA alkaline batteries may also
be used for emergency backup power.

12V Power Cord Included
Charge the NiMH batteries in a car or boat.

Speaker/Mic Jack
Allows connecting optional Cobra Lapel
Speaker/Mic.

Memory Channels
Allows programming of up to
ten (10) VHF memory channels.

Signal Strength Meter
Shows the strength of incoming
or outgoing signals.

Illuminated Buttons
Allows high visibility of all function buttons.

Table of Contents

Important Safety Information

Important Safety Information

Before installing and using your CobraMarine® VHF radio, please read these general precautions and warnings.

Warning and Notice Statements

To make the most of this radio, it must be installed and used properly. Please read the installation and operating instructions carefully before installing and using the radio. Special attention must be paid to the **WARNING** and **NOTICE** statements in this manual.

> **WARNING**
> Statements identify conditions that could result in personal injury or loss of life.

> **NOTICE**
> Statements identify conditions that could cause damage to the radio or other equipment.

Safety Training Information

This CobraMarine® radio has been tested and found to comply with the FCC RF exposure limits for use by the "General Population" and Industry Canada RF exposure limits for use by the "General Public." This CobraMarine VHF radio also complies with the following guidelines and standards regarding RF energy and electromagnetic energy levels as well as evaluation of those levels for human exposure:

- FCC OET Bulletin 65 Edition 97-01 Supplement C, Evaluating Compliance with FCC Guidelines for Human Exposure to Radio Frequency Electromagnetic Fields.

- American National Standards Institute (C95.1-1992), IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz.

- American National Standards Institute (C95.3-1992), IEEE Recommended Practice for the Measurement of Potentially Hazardous Electromagnetic Fields — RF and Microwave.

General Precautions

The following **WARNINGS** and **NOTICE** information on the following page will make you aware of RF exposure hazards and how to assure you operate the radio within the FCC RF exposure limits established for the radio.

Important Safety Information

WARNINGS

Your radio generates electromagnetic RF (radio frequency) energy when it is transmitting. To ensure that you and those around you are not exposed to excessive amounts of that energy, **DO NOT** touch the antenna when transmitting. **KEEP** the radio at least two (2) inches (5cm) away from yourself and others when transmitting.

DO NOT transmit more than 50% of the time the radio is in use — 50% duty cycle. The radio is transmitting when the **Talk** button is pressed and the transmit information shows on the LCD screen.

ALWAYS use only Cobra authorized accessories.

DO NOT operate the radio in an explosive atmosphere, near blasting sites, or in any area where signs are posted prohibiting radio transmissions.

NEVER place the transceiver or microphone/speaker where they might interfere with operation of your vessel or cause injury.

DO NOT allow children or anyone unfamiliar with proper procedures to operate the radio without supervision.

Failure to observe any of these warnings may cause you to exceed FCC RF exposure limits or create other dangerous conditions.

NOTICE

Your radio is waterproof only when the batteries are properly installed.

AVOID using or storing the radio at temperatures below -4°F (-20°C) or above 140°F (60°C).

KEEP your radio at least 3 ft (0,9 m) away from your vessel's magnetic navigation compass.

DO NOT attempt to service any internal parts yourself. Have any necessary service performed by a qualified technician.

This radio is supplied with NiMH (Nickel-Metal Hydride) rechargeable batteries.

- Use only the Cobra power cord to recharge NiMH batteries in the radio.

- Do not short circuit the batteries.

- When replacing the batteries, dispose of the old batteries properly. The NiMH batteries may explode if disposed of in a fire.

Changes or modifications to your radio MAY VOID its compliance with FCC (Federal Communications Commission) rules and make it illegal to use.

Recommendations for Marine Communication

The frequencies your radio uses are set aside to enhance safety afloat and for vessel navigation and operational messages over a range suitable for nearshore voyages.
If the 3 watt maximum output of your radio is not sufficient for the distances you travel from the coast, consider a higher powered handheld or installing a Cobra Marine fixed mount radio with up to 25 watts of output power. (Visit www.cobra.com or your local dealer for model availability.)

If traveling far offshore, you should consider adding even more powerful radio equipment such as HF single side band or satellite radio for your vessel.

The U.S. Coast Guard does not endorse cellular telephones as substitutes for marine radios. They generally cannot communicate with rescue vessels and, if you make a distress call on a cellular telephone, only the party you call will be able to hear you. Additionally, cellular telephones may have limited coverage over water and can be hard to locate. If you do not know where you are, the Coast Guard will have difficulty finding you if you are using a cellular telephone.

However, cellular telephones can have a place on board where cellular coverage is available — to allow social conversations and keep the marine frequencies uncluttered and available for their intended uses.

VHF Marine Radio Procedures

If you are not familiar with or need to brush up on the protocols that must be followed when using a VHF Marine Radio, please study the section beginning at page 28 before putting your radio into service.

FCC Licensing Information

CobraMarine VHF radios comply with the FCC (Federal Communications Commission) requirements that regulate the Maritime Radio Service.

The radio operates on all currently allocated marine channels and is switchable for use according to U.S.A., International or Canadian regulations. It features instant access to emergency Channel 16 and calling Channel 9 as well as NOAA (National Oceanic and Atmospheric Administration) All Hazards Radio with Alert that can be accessed by pressing one (1) button.

Station License

An FCC ship station license is no longer required for any vessel traveling in U.S.A. waters which uses a VHF marine radio, RADAR, or EPIRB (Emergency Position Indicating Radio Beacon), and which is not required to carry radio equipment. However, any vessel required to carry a marine radio on an international voyage, carrying an HF single side band radiotelephone, or carrying a marine satellite terminal must obtain a station license.
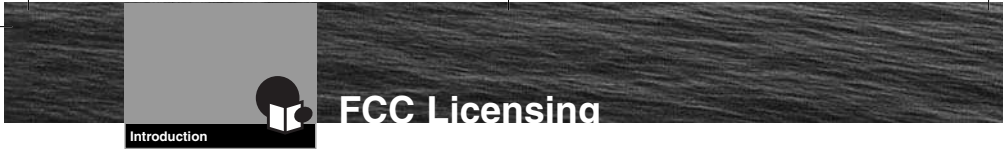
FCC Licensing

FCC license forms and applications for ship and land stations can be downloaded through the Internet at www.fcc.gov. Forms can also be obtained by calling the FCC at 888-225-5322.

International Station License

If your vessel will be entering the sovereign waters of a country other than the U.S.A. or Canada, you should contact that country's communications regulatory authority for licensing information.

Radio Call Sign

Currently, the FCC does not require recreational boaters to have a license. The United States Coast Guard recommends that the boat's registration number and state of registry (e.g., IL 1234 AB) be used as a call sign and be clearly visible on the vessel.

Canadian Ship Station License

You need a Radio Operator's Certificate if your vessel is operated in Canadian waters. Radio Operator training and certification is available from the Canadian Power Squadron. Visit their website (http://www.cps-ecp.ca/english/newradiocard.html), contact the nearest field office or write: Industry of Canada, Radio Regulatory Branch, Attn: DOSP, 300 Slater Street, Ottawa, Ontario, Canada K1A 0C8.

User Responsibility and Operating Locations

All users are responsible for observing domestic and foreign government regulations and are subject to severe penalties for violations. The VHF frequencies on your radio are reserved for marine use and require a special license to operate from land, including when your boat is on its trailer.

NOTE
This device complies with part 15 of the FCC Rules. Operation is subject to the following two (2) conditions:
1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

FCC Warning: Replacement or substitution of transistors, regular diodes or other parts of a unique nature, with parts other than those recommended by Cobra may cause a violation of the technical regulations of part 80 of the FCC Rules, or violation of type acceptance requirements of part 2 of the rules.

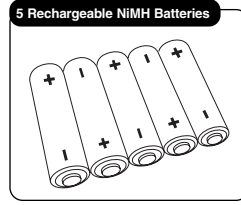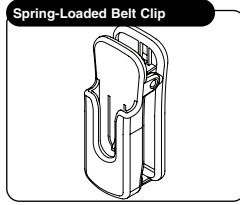# Included in this Package

Included in this Package
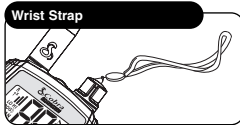You should find all of the following items in the package with your CobraMarine VHF radio.

Radio	Wrist Strap	12V Power Cord
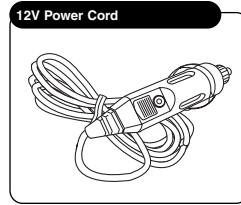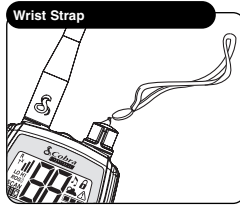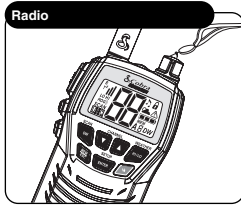
For connection to 12-volt power sources.

Operating Instruction Manual	Spring-Loaded Belt Clip	5 Rechargeable NiMH Batteries

Wrist Strap, Belt Clip and External Speaker/Mic

Wrist Strap and Belt Clip
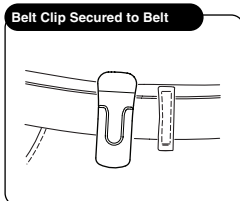
Wrist Strap

Wrist Strap
The radio comes with the wrist strap already attached. It can be easily removed if you choose not to use it.

Belt Clip Secured to Belt

Belt Clip
Use the spring-loaded belt clip to carry the radio on your person.
1. Press open the belt clip, slide it over the belt and release the clip.
2. Insert the round guide on the back of the radio into the guide channel on the belt clip. The radio must be upside-down, as shown, to remove it from the belt clip.

Removing the Radio

3. Once the knob is inserted all the way into the belt clip channel, the radio swings free but remains secure.

Secure Radio

External Speaker/Microphone Jack
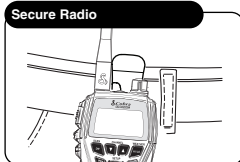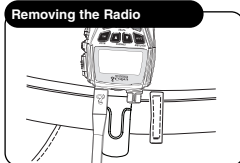
Speaker/Microphone Jack
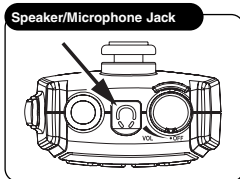
Your radio can be fitted with an optional External Speaker/Microphone (not included), freeing your hands for other tasks. Contact your local CobraMarine® dealer or Cobra® directly for optional accessories.
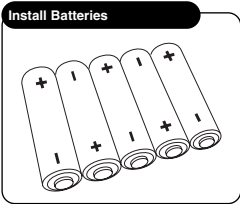**To attach the external speaker/microphone:**
1. Open the speaker/microphone tab on top of the radio.
2. Insert the plug into the speaker/microphone jack.

Batteries and Charging

## Batteries and Charging

Install Batteries

The radio is is shipped with five (5) NiMH rechargeable batteries.

WARNING

The 12V power cord supplied with this radio is only to be used with its rechargeable batteries. Do not attempt to charge any other type of batteries in the radio as fire, explosion or battery damage will occur. Rechargeable battery life will be prolonged if extreme ambient temperatures are avoided.

When your rechargeable batteries begin to discharge too quickly, it is time to install new batteries. Your radio will also operate with five (5) high-quality AAA alkaline batteries.
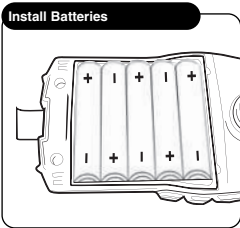
Install Batteries

Installing the Batteries

Install the AAA batteries in the slots in the battery compartment with the batteries oriented according to the polarity (+ & -) marks in the slots.

Initial Charge

The Cobra-provided NiMH batteries may be charged in a car or boat using the appropriate 12V power cord.

Power Source

1. Insert the power cord into the side of the radio.

2. Insert the other end of the power cord into a 12V power source.

3. Observe that the red light on the power cord glows to indicate that power is present.

4. Allow the batteries to charge for 12 to 14 hours before use.
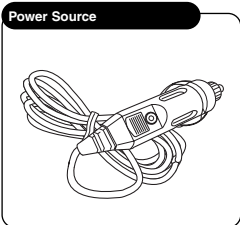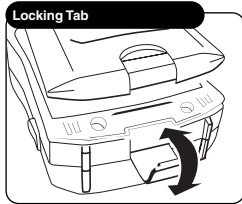
WARNING

Only the rechargeable NiMH batteries can be recharged. You MUST use the charging device provided with this radio. Do not substitute any other type of charging adapter. Battery damage, fire or explosion may result. It is equally important to prevent the NiMH batteries from freezing to obtain best performance from them.

Batteries and Charging

Locking Tab

To Remove Batteries from Radio

1. Pivot the locking tab on the battery cover and remove it.

2. Pull the individual batteries out of the radio housing.

⚠ **NOTICE**
NiMH batteries are toxic. Please dispose of properly. Some marine suppliers accept old batteries for recycling and some municipal waste disposal agencies have special provisions for battery disposal.

Fully Charged

Partially Charged

Fully Discharged
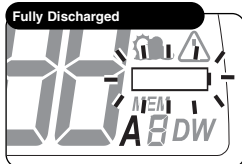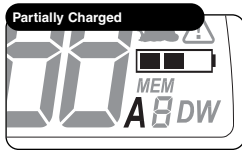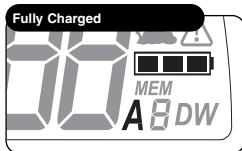
Maintaining the Battery Charge

As you use your radio, the battery power icon will show the battery power remaining. When the icon begins to flash, it is time to recharge or change the batteries.

⚠ **NOTICE**
Use only the 12V power cord provided by Cobra. Do not use the power cord with alkaline batteries; only the NiMH batteries are rechargeable. Spent alkaline batteries must be discarded and replaced.

It is a good idea to keep a set of fresh, high-quality AAA alkaline batteries with your radio. Should the rechargeable batteries become discharged and no electrical power source be available, you can insert fresh alkaline batteries and continue to use your radio.

Getting Started

## Getting Started

MR HH125 Radio
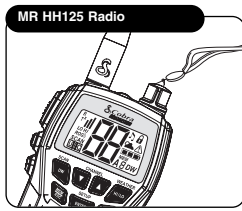
Refer to the foldout at the front of this manual to identify the various controls and indicators on your radio. Throughout this manual you will be instructed to "Press" or to "Press and Hold" various buttons (except "Push to Talk") on the radio. "Press" means a momentary press of approximately one (1) second. "Press and Hold" means to hold the button down for approximately three (3) seconds.

Whenever you press any button except the **Talk** button on your radio, a brief tone (beep) will sound to confirm the button press. With all button presses, the appropriate icon will appear on the LCD and the backlight will turn On. The backlight will stay On for 10 seconds after the button is released.

At times, you will hear two (2) other sounds. Two (2) beeps will sound to confirm your setting changes and three (3) beeps will sound to notify you of an error.

Common Radio Functions

The following procedures define common operating functions of the radio when in either **Marine Standby** or **Weather (WX) Standby** modes.
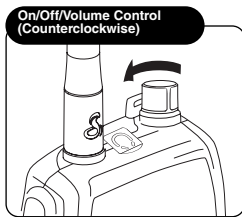
**On/Off/Volume Control
(Clockwise)**
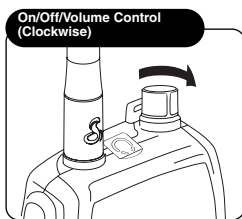
Power/Volume Control

Power On/Off Control

The **On/Off/Volume** control is located at the upper right side of the radio. Turning the **On/Off/Volume** control past the detent position will turn the radio On or Off.

Power Saver

Your radio has a unique circuit designed to extend battery life. If there are no transmissions, signals, or button presses for ten (10) seconds, the radio will automatically switch to **Power Save** mode. Signal reception or any button press will take the radio out of **Power Save** mode.

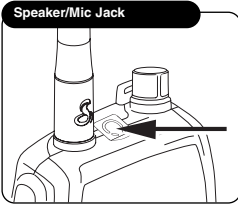**On/Off/Volume Control
(Counterclockwise)**

Volume Control

Volume is controlled by turning the **On/Off/Volume** control.
■ To increase the volume, turn the **On/Off/Volume** control clockwise.
■ To decrease the volume, turn the **On/Off/Volume** control counterclockwise.

Getting Started

Speaker/Mic Jack

Radio Speaker and Microphone

The internal **Radio Speaker** and **Microphone** are located on the bottom front face of the radio below the lower control buttons.

An <u>optional</u> **Speaker/Microphone** jack is located at the top of the radio between the antenna and the **On/Off/Volume** control. Flip the protective cap open and insert the plug into the jack.
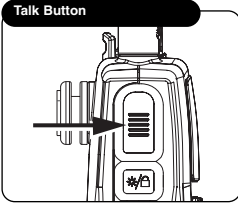
Talk Button

Talk Button

Press and hold the **Talk** button to transmit messages. Release the **Talk** button to stop transmitting. If the **Talk** button is pressed while on a receive only channel, a three beep error signal will sound.
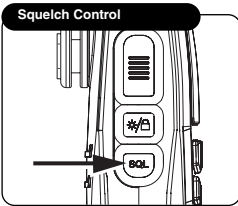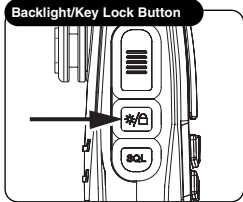
Squelch Control

Squelch Control

This radio is equipped with an automatic squelch control. Squelch filters weak signals and radio frequency (RF) noise so you can hear the main signal clearly.

To receive weak signals, the automatic squelch can be turned Off (opened) by pressing the **Squelch Defeat** button. You will likely hear a lot of static and RF noise along with the weak signal.

Press the **Squelch Defeat** button for up to five (5) seconds to briefly open squelch. To hold squelch open for longer periods, press and hold the **Squelch Defeat** button for more than five (5) seconds. Squelch will remain open until you press the **Squelch Defeat** button again or you change channels.

Getting Started

Backlight/Key Lock Button

Key Locked Buttons

Key Lock Icon

Channel Up/Down Buttons

Currently On Channel 88

Backlight/Key Lock Button

The LCD will be illuminated by the backlight as long as any button is pressed and will remain On for 10 seconds after the button is released.

To Display the Backlight Momentarily:

Press the **Backlight/Key Lock** button. The backlight will remain On for 10 seconds. If the backlight is already On, a press of the **Backlight/Key Lock** button will turn it Off.
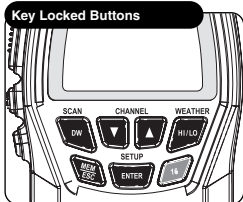
Key Lock

To prevent accidental changes to your settings, you can lock all of the buttons on the front of the the radio along with the Squelch Defeat button.

To Lock or Unlock the Buttons:

Press and hold the **Backlight/Key Lock** button for two (2) seconds. The **Key Lock** icon will appear or disappear in the LCD. When **Key Lock** is On, pressing any of the buttons on the front of the radio will result in a three (3) beep error message.

Both the **Backlight/Key Lock** button and the **Talk** button are active — you can **Receive (Rx)** or **Transmit (Tx)** a message with **Key Lock** On, but you cannot change the channel.
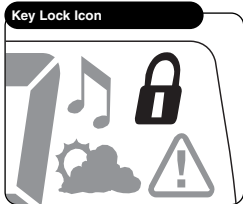
Channel Up/Down Buttons

Your radio will **Receive (Rx)** and **Transmit (Tx)** VHF signals on the channel indicated on the LCD display. You can change the channel at any time using the **Channel Up/Down** buttons.

To Change Channels:

Press the **Channel Up/Down** buttons.

If you are on Channel 88, pressing the **Channel Up** button will advance to Channel 01. If you are on Channel 01, pressing the **Channel Down** button will advance to Channel 88.

You can press and hold the **Channel Up/Down** button for fast advance. The beep sound will occur only at the first press of the buttons and not during fast advance.

If the new channel selected is restricted to low power, the radio will automatically switch to **Low Power** mode and the **Low Power** icon will appear on the LCD.

If the radio is in the **Key Lock** mode, the channel will not change and the three (3) beep error signal will sound.
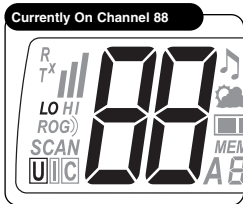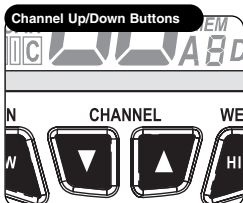
Operating Your Radio
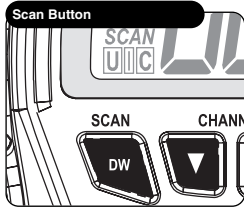
Getting Started

Scan Button

SCAN Button

Press and release the **SCAN** button to scan all channels.
The **SCAN** icon will display on the LCD display. Scanning
begins at lower channels, and scans to higher channels.
Press **Channel Up/Down** button to change the scan
direction.

When a signal is received in **SCAN** mode, the radio will
pause 10 seconds before resuming **SCAN** operation.
The scan will stop when the **Talk** button is pressed.

NOTE
Memory channels need to be saved to effectively
enter the **Memory Channel** mode and scan all
memory channels. See page 25.
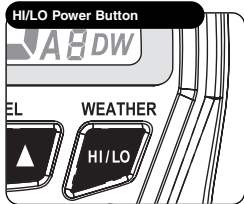
HI/LO Power Button

High/Low (HI/LO) Power Button

Your radio can transmit selectively at 1 or 3 watts of power.
Cobra suggests you maintain the low power setting for
short-range communication. You will conserve battery life
and avoid overpowering nearby stations by using a low
power signal. Use the **High Power** setting for long-range
communications or when you do not receive a response
to a signal sent at 1 watt.

To Toggle Between HI/LO Power Modes:

Press the **Power Level/Weather** button. The LCD
will show which mode is in effect. Some channels are
restricted for a maximum use of 1 watt. Your radio will
automatically set the power to **Low Power** mode when
you select those channels.

NOTE
Some channels, frequency bands and countries of use
might not be able to operate in **High Power** mode.

Operating Your Radio

Setup Mode Programming

Setup Mode Programming

The following series of procedures is designed to allow you to set the programmable features of your radio. Correctly following these steps results in a minimal amount of radio setup programming time.

NOTE

When in the **Setup** mode, if you stop programming for longer than 15 seconds, your entry will be saved and the radio will go back to the **Marine Standby** mode. Pressing any of the non-programming buttons (Talk, Dual-Watch/Scan, Power Level/Weather, Instant Channel 16/9) will also exit **Setup** mode and invoke the button function or return the radio to **Marine Standby** mode.

When you return to **Setup** mode and continue programming you will see the last "value" displayed. While in the **Setup** mode, you will not receive any signal reception.

Marine (VHF) Mode Programming

Programming these features will allow you to customize certain features of this radio to enhance your "On-Water" audio needs.
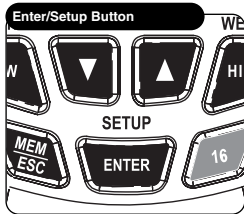

Start from **Marine Standby** mode to begin **Marine (VHF) Setup** programming. Press and hold the **Enter/Setup** button for three (3) seconds to enter the programming mode.

Setup Mode Programming

U.S.A./International/Canada Channel Maps

Three (3) sets of VHF Channel Maps have been established for marine use in the U.S.A., Canada, and the rest of the world (International). Most of the channels are the same for all three (3) maps, but there are definite differences (see table in the Appendix). Your radio has all three (3) maps built into it and will operate correctly in whichever area you choose.

Set Channel Map

Active Channel Map Icon

Channel Up/Down Buttons
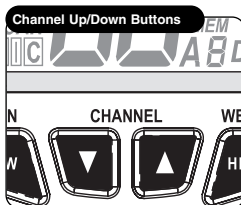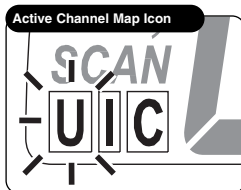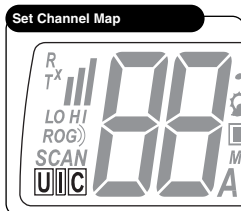
To Set Channel Map Operating Area:

1. The **Channel Map** mode is the first mode that begins the **Marine (VHF) Setup** programming.

2. **U, I** and **C** will display, with the current setting (the **U** icon is the default) flashing.

3. Press **Channel Up/Down** buttons to select the **U, I** or **C** icon.

4. Press **Enter/Setup** button to save this entry and move to the next setup programming mode – **Roger Beep**.

NOTE
One or two of the channel maps might have been disabled for sales of this radio in some countries.

Setup Mode Programming
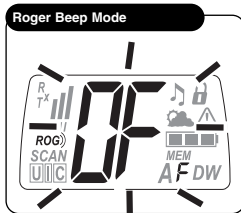
Roger Beep Mode

Roger Beep Mode

In **Roger Beep** mode, your listener will hear an audible tone when you release the **Talk** button. This alerts your listener that you are finished talking and it is OK for them to speak.

To Set Roger Beep On or Off:

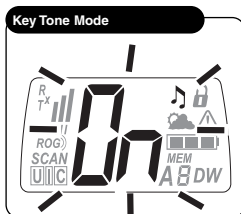**1.** Display will show **ROG** icon and ON or OFF flashing.

2. Press **Channel Up/Down** buttons to select ON or OFF. **ROG** will be displayed when On.

3. Press **Enter/Setup** button to save this entry and move to the next setup programming mode – **Key Tone**.

Key Tone Mode

Key Tone Mode

In **Key Tone** mode, an audible tone will sound each time a button is pressed or you change a setting.

To Set Key Tone On or Off:

1. Display will show **Key Tone** icon and ON or OFF flashing.

2. Press **Channel Up/Down** buttons to select ON or OFF.
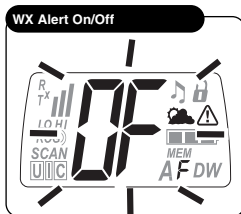
3. Press **Enter/Setup** button to save all entries.

You have now ended **Marine (VHF) Setup** programming mode and will enter **Marine Standby** mode.

Operating Your Radio

Setup Mode Programming

Weather (WX) Alert Mode Programming

Programming these features will allow your radio to listen to all NOAA Hazard Alert radio signals and warnings.

Start from **WX Standby** mode (see page 20) to begin **WX Alert Setup** programming. Press and hold the Enter/Setup button for three (3) seconds to enter the programming mode.

WX Alert On/Off

To Set WX Alert On or Off:
1. **WX Alert** mode is the first mode that begins **WX Alert Setup** programming.
2. Display will show **WX Alert** icon and ON or OFF flashing.
3. Press **Channel Up** and **Channel Down** buttons to select ON or OFF.
4. Press **Enter/Setup** button to save this entry and move to the next setup programming mode.
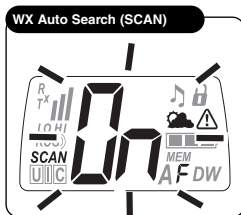
WX Auto Search (SCAN)

To Set WX Auto Search (SCAN) On or Off:
1. Display will show **WX Alert** icon and **SCAN**, ON or OFF is flashing.
2. Press **Channel Up** and **Channel Down** buttons to select **SCAN**, ON or OFF.
3. Press the Enter/Setup button to save entry.

You have now ended the **WX Alert Setup** programming mode and will enter the **WX Alert Standby** mode.

When **WX Alert** is On and **WX Auto Search (SCAN)** is Off, the unit will continuously check the selected WX channel from Marine or WX Standby for the WX Alert tone. When the tone is detected, the radio will sound an alert tone and flash the **WX Alert** icon. The unit will remain on that WX channel until you switch back to **Marine Standby** mode.

When **WX Auto Search (SCAN)** is On, the unit will periodically check all ten (10) weather channels from Marine Standby for the WX Alert tone.

Standby, Receive and Transmit

Standby, Receive and Transmit

Marine Standby and Receive (Rx) Mode

Marine Standby mode is the default mode for the radio whenever it is turned On. From this mode, you can change current settings by becoming familiar with the different key functions that are active in **Marine Standby** mode. While in **Marine Standby** mode, the user will be able to transmit by pressing the **Push to Talk (Talk)** button. Users will hear signals on the selected channel(s) in **Receive (RX)** mode and can hear alerts broadcast by the Coast Guard and NOAA.

NOTE
Coast Guard alerts are broadcast on Channel 16 and you need to have the **WX Alert** turned On to receive NOAA weather alerts. While in **Marine Standby** mode, you will receive any messages sent on the channel to which you are tuned.

Transmit (Tx) Mode

Transmit (Tx) mode gives you the ability to interact with safety services, other vessels and shore stations. When you use this capability, be sure to follow the procedures and to observe the courtesies that govern its use so everyone benefits. See Appendix to help you select the proper channels.

Check Channel Number

Low Power Mode
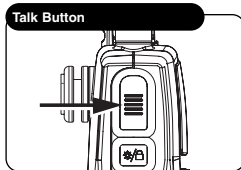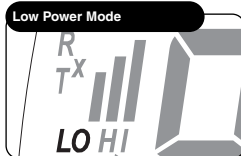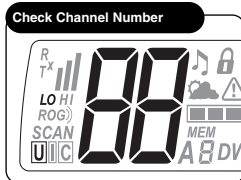
Talk Button

To Transmit a Message:

1. Check to see that your radio is set to a proper channel for the type of message you plan to send.

2. Toggle to the **Low Power** setting.

3. With the microphone about 2 in. [51 mm] from your mouth, press and hold the **Talk** button and speak into the microphone. The **Transmit** icon will appear on the LCD.

4. Release the **Talk** button when you are finished speaking. Your radio can only operate in either **Transmit (Tx)** or **Receive (Rx)** mode at any given time. You will not hear the response to your message unless the **Talk** button is released. If the **Battery Power** icon begins blinking on the LCD when the **Talk** button is pressed, the radio will NOT transmit.

NOTE
If the **Talk** button is held down for five (5) minutes, the radio will automatically sound a series of beeps and cease transmitting to prevent unwanted signal generation and battery drain. As soon as the **Talk** button is released, it can be pressed again to resume transmission.

NOAA All Hazards/Weather Radio and Alert

NOAA Weather Channels

Monitoring the weather will probably be a frequent use of your radio. NOAA provides continuous, around-the-clock broadcasts of the latest weather information. Taped weather messages run every four (4) to six (6) minutes and are revised every two (2) or three (3) hours, or as needed. The Coast Guard also announces weather and other safety warnings on Channel 16. Smart boaters keep an eye on safety and an ear to the radio — and never let the weather catch them unaware.

NOAA Emergency Weather Alert

In the event of a major storm or other weather condition requiring vessels at sea or on other bodies of water to be notified, NOAA broadcasts a 1050 Hz tone that receivers such as your CobraMarine VHF radio can detect and warn you of a weather alert condition. When the **Weather Alert** mode on your radio is On, this signal will produce a loud tone from the speaker in the radio and will automatically switch to the alerting weather channel so the alert broadcast can be heard.

NOAA Test Alert System

To test this system, NOAA broadcasts the 1050 Hz signal every Wednesday sometime between 11 a.m. and 1 p.m. in each local time zone. Any receiver that can detect the weather alert tone may use this service to verify that this system is functioning properly.

These signals will be received in **Marine** or **Weather Standby** modes as described below.

Weather (WX) Standby Mode

WX Standby Display
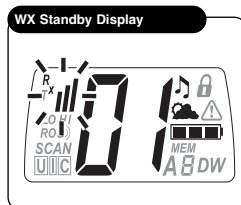
To enter the **WX Standby** mode, press and hold the **Power Level/Weather** button. All common operating functions of the radio will work the same in **WX Standby** mode as they do in the normal **Marine Standby** mode. The radio will be monitoring for all alerts in the background when in the **WX Standby** mode.

Operating Your Radio

NOAA All Hazards/Weather Radio and Alert

WX Alert Standby Mode

When NOAA broadcasts a weather alert signal and your radio is in **WX Alert Standby** mode, the following items will be displayed on the LCD display:

■ The **WX** icon (cloud/sun) icon will be displayed.

■ The last used weather channel will be displayed.

■ The bar graph will display received signal strength level.

■ The **WX Alert** icon (safety triangle) will be displayed.

NOTE

Only one (1) or two (2) of the weather channels will be operating in any given location (only in **Receive (Rx)** mode). You will need to select the channel with the strongest signal in your location.

NOTE

When in the **WX Alert** mode, and NOAA sends the 1050Hz alert tone, the radio will sound a series of loud beeps regardless of the volume control setting.
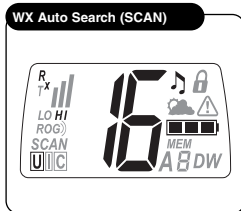
WX Auto Search (SCAN)

WX Auto Search (SCAN) Mode Function:

The purpose of the **WX Auto Search (SCAN)** function is to enable the receiver to automatically scan for Weather Alerts on all ten (10) WX channels while the radio is in **Marine Standby** status. This allows use of the communication functions of the radio without missing a Weather Alert when:

■ **WX Auto Search (SCAN)** function is On.

■ **WX Alert** is On.

■ The radio is tuned to a **Marine VHF** channel and has entered **Power Save** mode (meaning there is no signal activity or user input for 10 seconds).

■ The radio software has detected that the current **WX** channel signal level has dropped below a preset minimum level or is gone completely.

Under these conditions, the software will scan the **WX** channels looking for an active **WX** channel. When an active **WX** channel is found, it will stop the scan and use the new **WX** channel to look for the standard 1050Hz alert tone.

Operating Your Radio
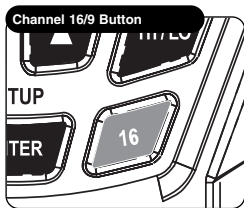
Advanced Operation

Advanced Operation

Several capabilities of your radio can add to its versatility and ease of use even though they are not needed for its basic operation.
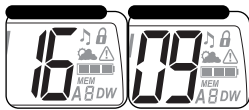
Channel 16/9 Mode

Channel 16/9 mode gives you quick access to calling on Channel 16 and Channel 9 from any operational mode.

Channel 16/9 Button

To Switch to Channel 16 or Channel 9:

1. Press the **Channel 16/9** button to change to Channel 16.

2. Press the **Channel 16/9** button again to change to Channel 9.

3. Press the **Channel 16/9** button a third time and return to the last used **Standby** channel.

NOTE
This key is labeled as "16" for maximum visibility.

Operating Your Radio

Advanced Operation

Dual-Watch Mode

Dual-Watch mode gives you one (1) button access to scan a total of two (2) channels of most importance to you. Channel 16 is preprogrammed and will always be one (1) of the scanned locations. The other channel can be any marine VHF channel of your choice.

DUAL-WATCH Button

SCAN

DW

Dual-Watch Scan Mode
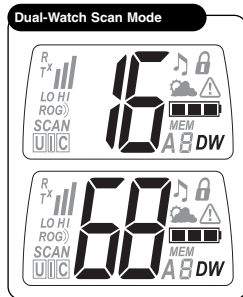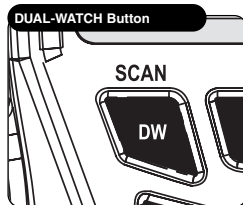
Using Dual-Watch

1. In **Marine Standby** mode, select the desired channel for Dual-Watch scanning.

2. Press the **Dual-Watch** button. The **DW** icon will appear on the LCD display and the radio will scan channel 16 and the selected channel.

3. A signal on any one (1) of the two (2) channels will stop the scan for 10 seconds to allow you to listen to the traffic on that location.

NOTE

After the **Dual-Watch** scan stops to monitor a channel, as long as you do not press any buttons within 10 seconds, your radio will automatically resume scanning the **Dual-Watch** channels.

4. Press the **Channel Up** or **Channel Down** buttons to resume scanning the **Dual-Watch** channels or to change the scan direction.

5. To EXIT the **Dual-Watch** scan, press the **Dual-Watch** button again. The **DW** icon will disappear from the LCD and the radio will return to **Marine Standby** mode.

Memory Location Mode

Your radio has ten (10) memory locations (numbered 0 to 9) for your most frequently used channels. These memory locations can be selected individually or can be scanned.

MEM/ESC Button

Memory Location Number

Channel Up/Down Buttons

CHANNEL

Channel Number
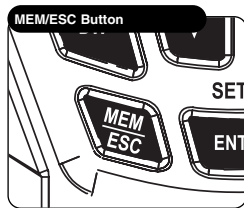
To enter **Memory** mode, press **Memory/Escape** button. The display will show the **MEM** icon and the **Memory Channel** bank will be activated and displayed.
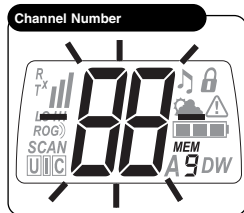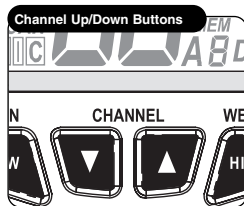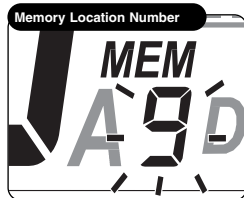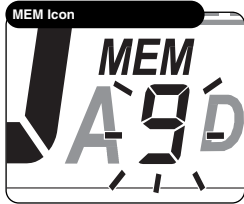
To Program Memory Locations:

1. Press and hold the **Memory/Escape** button for two (2) seconds. The memory location number will start flashing and the **MEM** icon will be turned On.

2. Use the **Channel Up** and **Channel Down** buttons to advance to the memory location (0-9) you want to program.

3. Press the **Memory/Escape** button to select the memory location. The memory channel number will stop flashing and the channel number will start flashing.

4. Use the **Channel Up** and **Channel Down** buttons to change to the channel you want to store into the selected memory location.

5. Press the **Memory/Escape** button to program that channel. The memory location number will flash again.

Repeat steps 2 through 5 to program as many additional memory locations as you want [up to ten (10) VHF memory channels].

6. Press and hold the **Memory/Escape** button for two (2) seconds. This will return the radio to **Memory** mode.

7. Press and release the **Memory/Escape** button again to return to **Marine Standby** mode.

Operating Your Radio

Advanced Operation

MEM Icon

MEM
A 9 D

To Recall a Stored Memory Location:

1. Press the **Memory/Escape** button. The **MEM** icon will be turned On.

2. Press the **Channel Up** or **Channel Down** button to select the memory location. If a memory location has been programmed, its associated channel will display on the LCD. Your radio is now in **Marine Standby** mode on the selected memory location.

To Exit Memory Location Mode:

Press the **Memory/Escape** button to return the radio to **Marine Standby** mode. The last channel used in **Marine Standby** mode will now be displayed on the LCD and the **MEM** icon will disappear.

To Erase Stored Memory Locations:

1. Press and hold the **Memory/Escape** button for two (2) seconds. The memory location number will start flashing and the **MEM** icon will be turned On.

2. Use the **Channel Up** and **Channel Down** buttons to advance to the memory location you want to erase.

3. Press the **Memory/Escape** button to select the memory location. The memory channel number will stop flashing and the channel number will start flashing.

4. Use the **Channel Up** and **Channel Down** buttons to change the channel to read "00" at the selected memory location.

5. Press the **Memory/Escape** button to erase that memory location.

Repeat steps 2 through 5 to erase as many additional memory locations as you want.

6. Press and hold the **Memory/Escape** button for two (2) seconds. This will return the radio to **Memory** mode.

7. Press and release the **Memory/Escape** button again to return to **Marine Standby** mode.

Advanced Operation

Memory Location Scan

68 ····· 69

79ₐ   71

78ₐ ····· 72
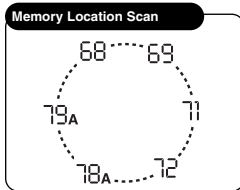
Memory Location Scan Mode

During **Memory Location Scan** mode, the radio will rapidly scan through all programmed memory channels. Whenever any activity is detected on a channel, the radio will stop the scan for 10 seconds to allow you to listen briefly on that channel. It will then continue to scan unless you switch out of **Memory Location Scan** mode.

NOTE

If there are fewer than two (2) memory locations programmed in the radio, the **Memory Location Scan** option will not be available. At least two (2) memory locations need to be programmed to use the Scan button.

MEM/ESC Button

SET

MEM
ESC

ENT

Scan Button

SCAN

DW
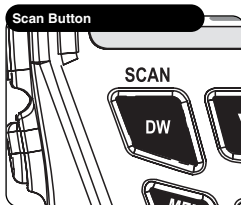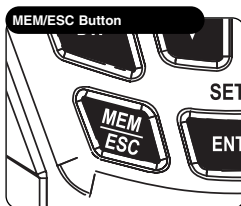
To Enter Memory Location Scan:

1. From **Marine Standby** mode, press the **Memory/Escape** button.

2. Press the **DUAL WATCH/SCAN** button. The radio will immediately begin to scan all pre-assigned memory channels. The **SCAN** and **MEM** icons will show on the LCD.

3. A signal on any channel will stop the scan for 10 seconds to allow you to listen to the traffic on that location.

4. Press the **Channel Up** or **Channel Down** button to resume scanning the **Memory Location Scan** channels or to change the scan direction.

5. To EXIT **Memory Location Scan** mode, press the **DUAL WATCH/SCAN** button again. The **SCAN** and **MEM** icons will disappear from the LCD and the radio will return to **Marine Standby** mode.

Advanced Operation

Scanning

SCAN Button

SCAN Icon

Channel Up/Down Buttons
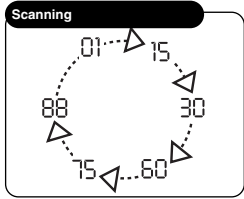
Channel Scan Mode

During **Channel Scan** mode, the radio will rapidly switch from channel to channel through ALL the channels. Whenever any activity is detected, the radio will stop the scan for 10 seconds to allow you to listen briefly on that channel. The radio will then continue to scan unless you switch out of the **Channel Scan** mode.

To Enter Channel Scan:

1. From **Marine Standby** mode, press and hold the **DUAL WATCH/SCAN** button. The radio will immediately begin to scan the entire channel map selected in the active channel map. The **SCAN** icon will show on the LCD.

2. A signal on any channel will stop the scan for 10 seconds to allow you to listen to the traffic on that location.

3. Press the **Channel Up** or **Channel Down** button to resume scanning the **Channel Scan** channels or to change the scan direction.

4. To EXIT **Channel Scan** mode, press and hold the **DUAL WATCH/SCAN** button again. The **SCAN** icon will disappear from the LCD and the radio will return to **Marine Standby** mode.